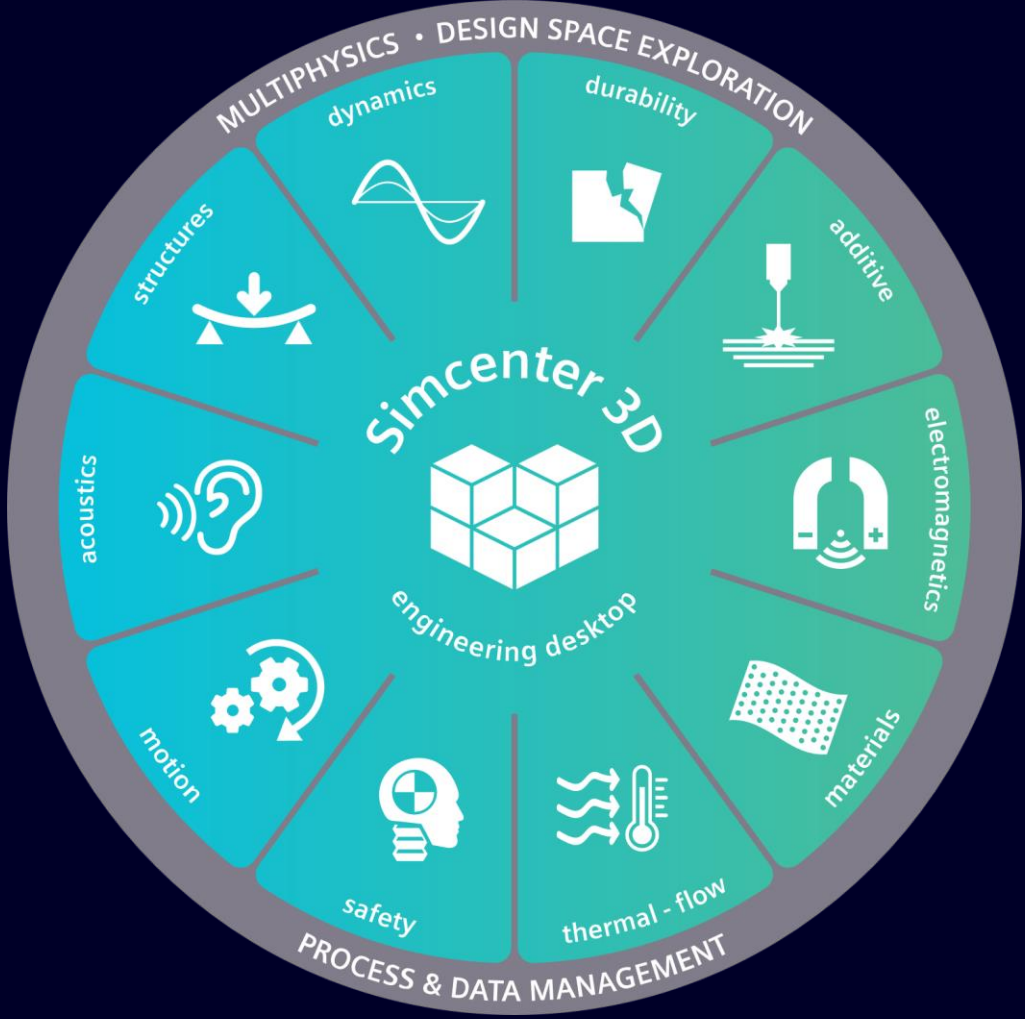


# Xcelerator Academy Learning Maps

## Your learning: At a Glance



Use our interactive learning maps as a guide to navigate through your content based upon your role then click on the icons throughout to learn more about your delivery options.



Select a role below

- LEARN THE SIMCENTER 3D PLATFORM**

**CAE Analyst** Teaches CAE analysts the basics of using Simcenter 3D Pre/Post (Engineering Desktop) to model, perform, and evaluate all their simulations.
- LEARN SIMCENTER 3D ACOUSTICS**

**Acoustics Analyst** Teaches acoustics analysts how to use Simcenter 3D Acoustics to analyze acoustic models to optimize the sound quality of products.
- LEARN SIMCENTER 3D MOTION**

**Motion Analyst** Teaches analysts, engineers, and designers how to use Simcenter 3D Motion to animate and analyze kinematic and dynamic motion mechanisms.
- GET CERTIFIED**

**Simcenter 3D Associate Certification** Choose your learning and take your exam to complete the Associate certification.

**Simcenter 3D Professional Certification** Choose your learning and take your exam to complete the Simcenter 3D Professional certification.

## LEARN THE ESSENTIALS

CAE Analyst

**Simcenter 3D Pre/Post**

Fundamentals of Using Pre/Post

Preparing the Model for Analysis

Solving the Model

Reviewing Analysis Results

Processes and Solutions

Use Simcenter 3D Platform!

**Siemens Xcelerator Academy Certified**

Capital Logic Associate 2022

[Click for detailed certification course list](#)

## LEARN SIMCENTER 3D ACOUSTICS

Acoustics Analyst

**Simcenter 3D Acoustics**

Working with Acoustics Models

Acoustics Analysis Applications

Optimize sound quality of products!

## LEARN SIMCENTER 3D MOTION

Motion Analyst

**Motion Fundamentals**

**Flexible Body Analysis**

**Discrete Drivetrain**

**Controls and Mechatronics Co-simulation**

Analyze kinematic and dynamic motion mechanisms!

Instructor-led training	On-demand training library	Xcelerator Academy Membership	Learning Journey	Standalone Certification Exam
**Virtual lab environment included in offer		Add-on vLab hours available for purchase	**Virtual lab environment included in offer	



# Complete Course List: Simcenter 3D Associate



5 Chapters

LEARNING PATH

### Fundamentals of using Pre/Post

Learn how to analyze a model and work with analysis data in Simcenter 3D.

- Simulation Modeling
- Multi-discipline Integration
- Openness and usability
- Communication with the enterprise
- Knowledge capture and automation

PREVIEW CHAPTER  
What Can You Do with Pre/Post?

9 Chapters

LEARNING PATH

### Preparing the Model for Analysis

Learn how to prepare a model for analysis by working with geometry, meshes, connections, assemblies, loads, and boundary conditions.

PREVIEW CHAPTER  
Loading a Model into Simcenter 3D

4 Chapters

LEARNING PATH

### Solving the Model

Learn how to solve a model with the Simcenter Nastran solver using structural analysis types.

PREVIEW CHAPTER  
Using Solutions and Subcases

6 Chapters

LEARNING PATH

### Reviewing Analysis Results

Learn how to display analysis results using post views, graphs, and reports.

PREVIEW CHAPTER  
Displaying Results Overview

7 Chapters

LEARNING PATH

### Processes and Solutions

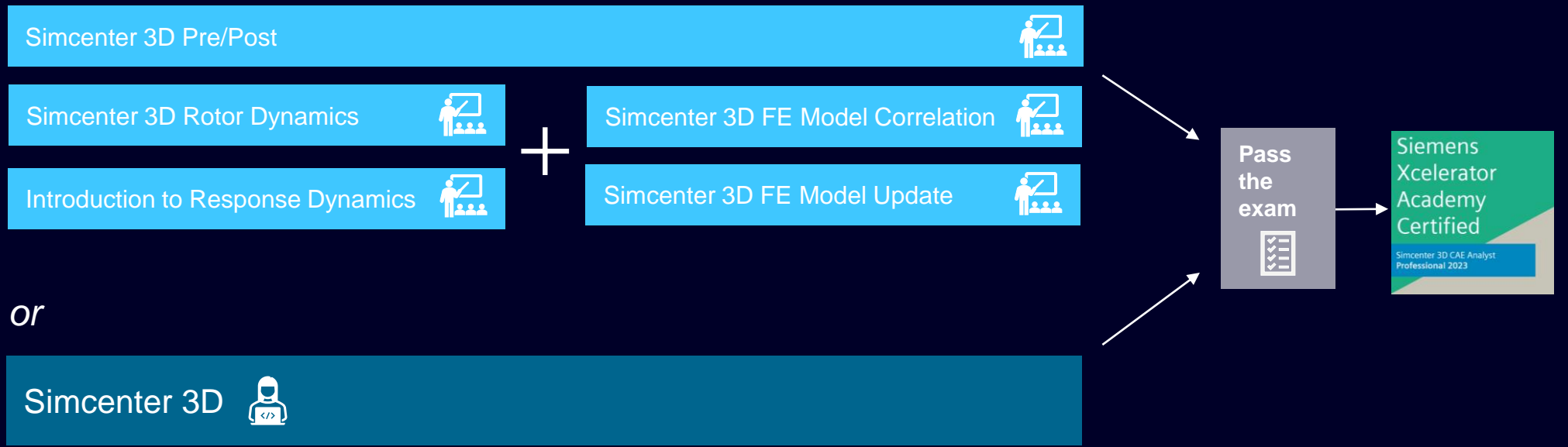
Learn how to analyze models using specialized Simcenter 3D tools.

PREVIEW CHAPTER  
Refining a Mesh with Adaptive Meshing

# Complete Course List: Simcenter 3D CAE Analyst Professional Certification



Pass the mandatory prerequisite Simcenter 3D CAE Analyst Associate exam



- Processes and Solutions - 2212**  
 07 CHAPTERS estimated 4.5 hours  
 Learn how to analyze models using specialized Simcenter 3D tools.  
 Simcenter 3D 2212 English
- Introduction to Response Dynamics - 2212**  
 01 CHAPTERS estimated 2.0 hours  
 Learn how to use response dynamics to analyze a model's response to an excitation.  
 Simcenter 3D 2212 English
- FE Model Correlation - 2212**  
 07 CHAPTERS estimated 7.0 hours  
 Learn how to prepare physical tests using the pre-test planning tools and how to correlate modal finite element results with experimental data in Simcenter 3D.  
 Simcenter 3D 2212 English
- Simcenter 3D Rotor Dynamics - 2206**  
 07 CHAPTERS estimated 4.0 hours  
 Learn how to model rotors and analyze the model with Complex Modal Analysis, Harmonic Response, Transient Response, and using Superelements.  
 Simcenter 3D 2206 English
- FE Model Update - 2212**  
 05 CHAPTERS estimated 3.8 hours  
 You will learn the key steps of the test-simulation interaction and understand the model update solution process. You will also learn about design variables.  
 Simcenter 3D 2212 English

